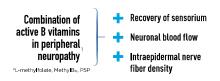
## METABOLIC CORRECTION & OPTIMIZATION OF PERIPHERAL NEUROPATHY

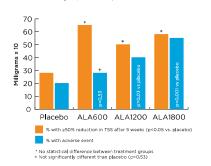
"Therapy should be directed at underlying pathogenesis, even when effective symptomatic treatments are available." - ADA Position Statement



#### Sydney 2 Trial: Alpha Lipoic Acid Improves Symptomatic Diabetic Polyneuropathy2

The Sydney 2 Trial examined the effects of alpha-lipoic acid (ALA) on positive sensory symptoms and neuropathic deficits in diabetic patients with distal symmetric polyneuropathy (DSP).

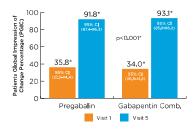
Oral dose of 600mg/d provides optimum risk-to-benefit ratio.





# Clinical Trial Assessing the Efficacy of Gabapentin Plus B Complex versus Pregabalin for Painful Diabetic Neuropathy

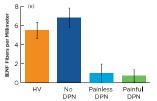
This study shows that GPB Plus B Complex is as effective as PGB with 50% of the gabapentin dose required as monotherapy with less adverse events.



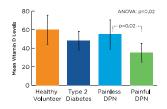
Results show that the GBP plus B Complex is as effective as PGB. \*Pain intensity reduction was achieved with a 300 to 1800mg/day dose of GBP/B1/B12 and in the same proportion as PGB 600mg (maximum dose).

## Vitamin D Deficiency: An Independent Risk Factor for Diabetic Neuropathy3

This study demonstrated a significant difference in vitamin D levels in people with painful diabetic peripheral neuropathy suggesting a possible role for vitamin D in the pathogenesis of painful diabetic peripheral neuropathy.



Both neuropathy groups (Painful and Painless DPN) had significant reduction in IENFD compared to HV (p<0.001).



Significant reduction of Painful-DPN group (p<0.01) and differences between Painful-DPN vs Painless-DPN (p=0.02) and Painful-DPN vs Healthy Volunteers [HV] (p=0.002).

#### Metformin Leads to Metabolic Deficiency in Diabetic Neuropathy<sup>5-7</sup>

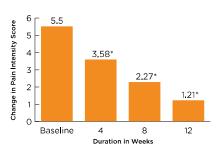
Multiple studies demonstrate metformin exposure may be an iatrogenic cause for exacerbation of peripheral neuropathy in patients with type 2 diabetes.



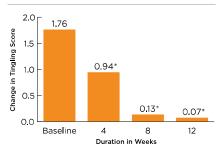
The implications for the metabolic consequences of metformin on Hcy and the risk of neuropathy suggest a role for active folate therapy, especially in patients with some polymorphic variants, including MTHFR.

## Fixed Dose Vitamin B Combination and Alpha Lipoic Acid in Diabetic Neuropathy®

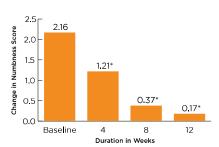
A substantial difference was observed in overall pain intensity, numbness, tingling, and muscle weakness.



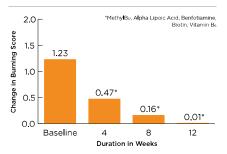
Mean pain score fell 78% after 12 weeks from baseline \*p<0.05.



Mean tingling score reduced by 96% after 12 weeks from baseline \*p<0.05.



Mean numbness score reduced by 92% after 12 weeks from baseline \*p<0.05.



Mean burning score reduced by 99% after 12 weeks from baseline \*p<0.05.

**EBM** MEDICAL